

## ABSTRACT OF THE DISCLOSURE

A virtual voice mode facsimile communication unit, comprised of a TCP/UDP/IP control section which controls an IP protocol and a TCP/UDP protocol, a real-time transfer control section which controls a real-time transfer protocol, a voice encoding/decoding section which encodes/decodes a voice signal, a MODEM which modulates/demodulates assuming that a facsimile signal is a voice signal, a T30 control section which controls a T.30 facsimile protocol and a communication image processing section which conducts image processing of communication image data, is provide for real-time facsimile communications with a conventional facsimile apparatus over an IP network in a state kept connected to a LAN via a network I/F.